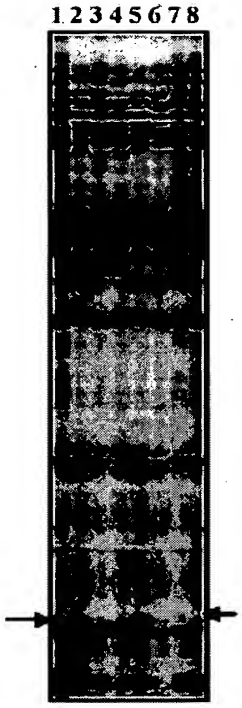


FIG.1

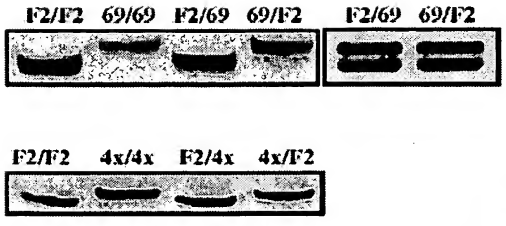


FIG.2

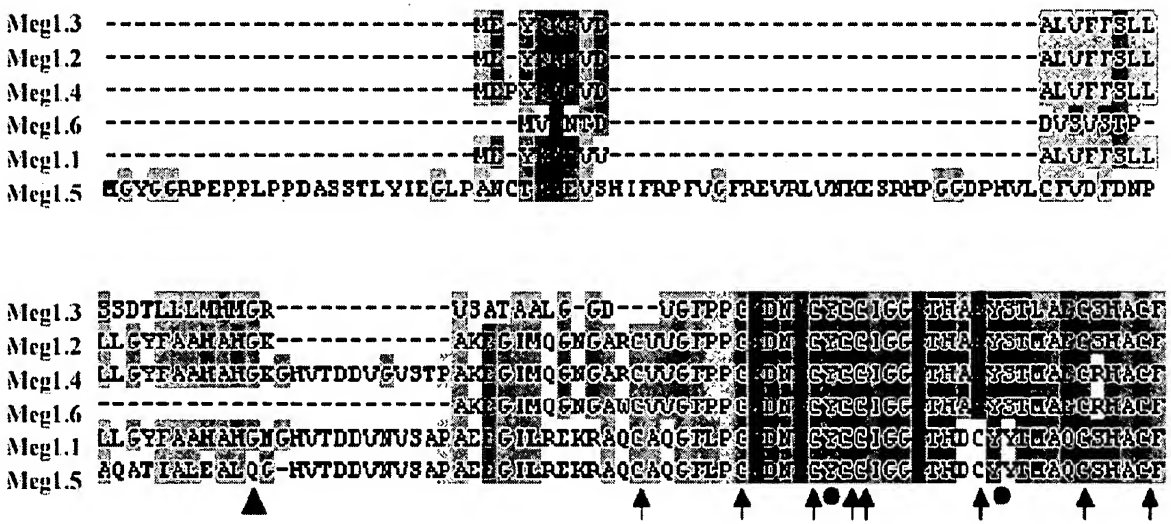


FIG.3

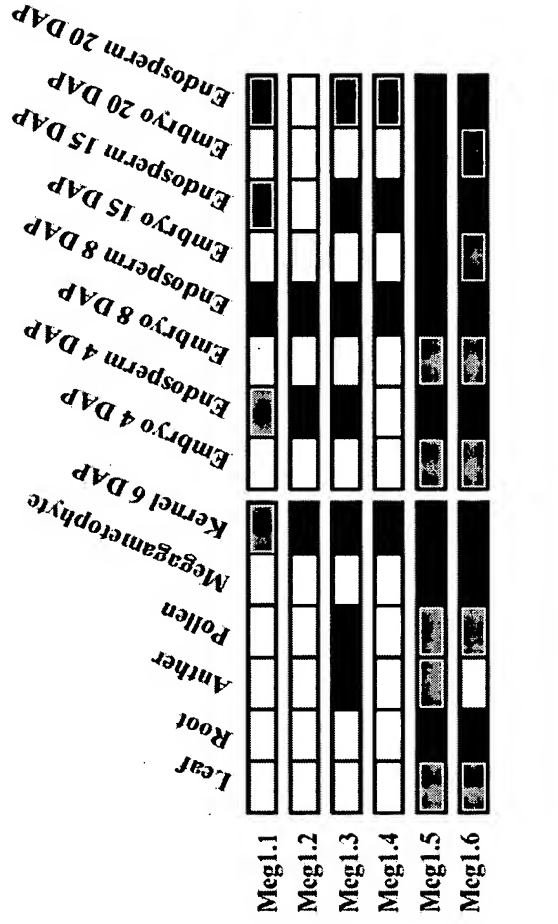

Meg1.1
Meg1.2
Meg1.3
Meg1.4
Meg1.5
Meg1.6
Leaf
Root
Anther
Pollen
Megagametophyte
Kernel 6 DAP
Embryo 4 DAP
Endosperm 4 DAP
Embryo 8 DAP
Endosperm 8 DAP
Embryo 15 DAP
Endosperm 15 DAP
Embryo 20 DAP
Endosperm 20 DAP

FIG.4

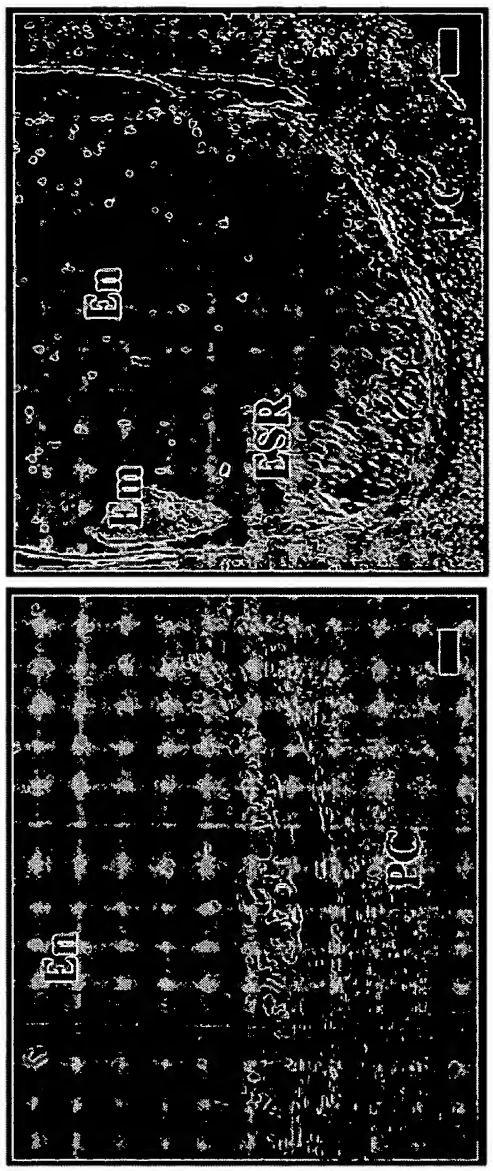


FIG.5

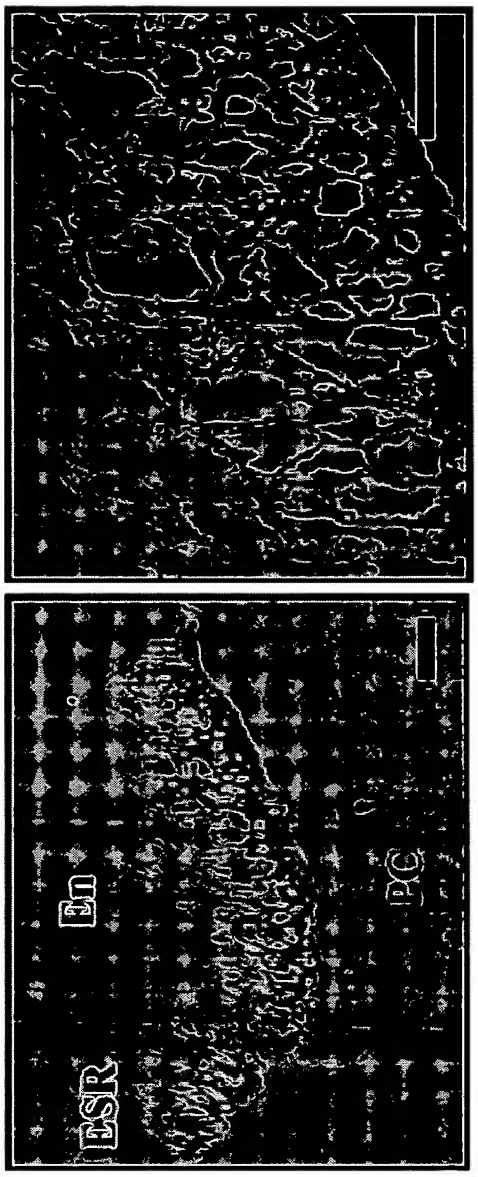


FIG.6

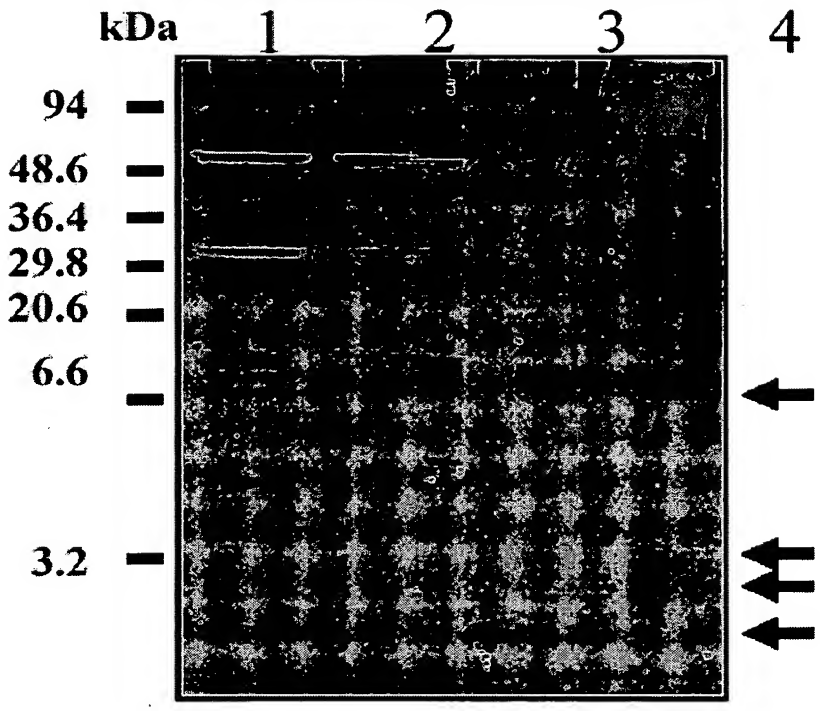
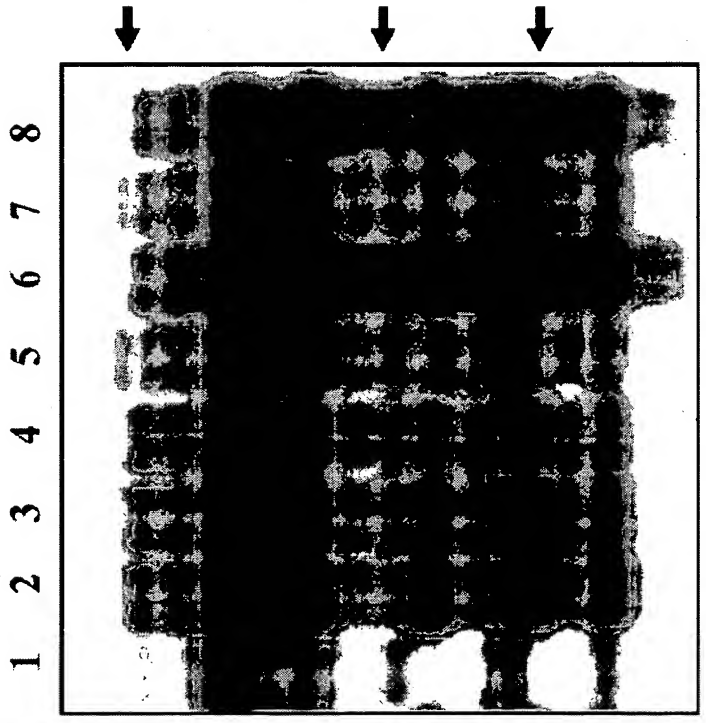


FIG.7

FIG.8



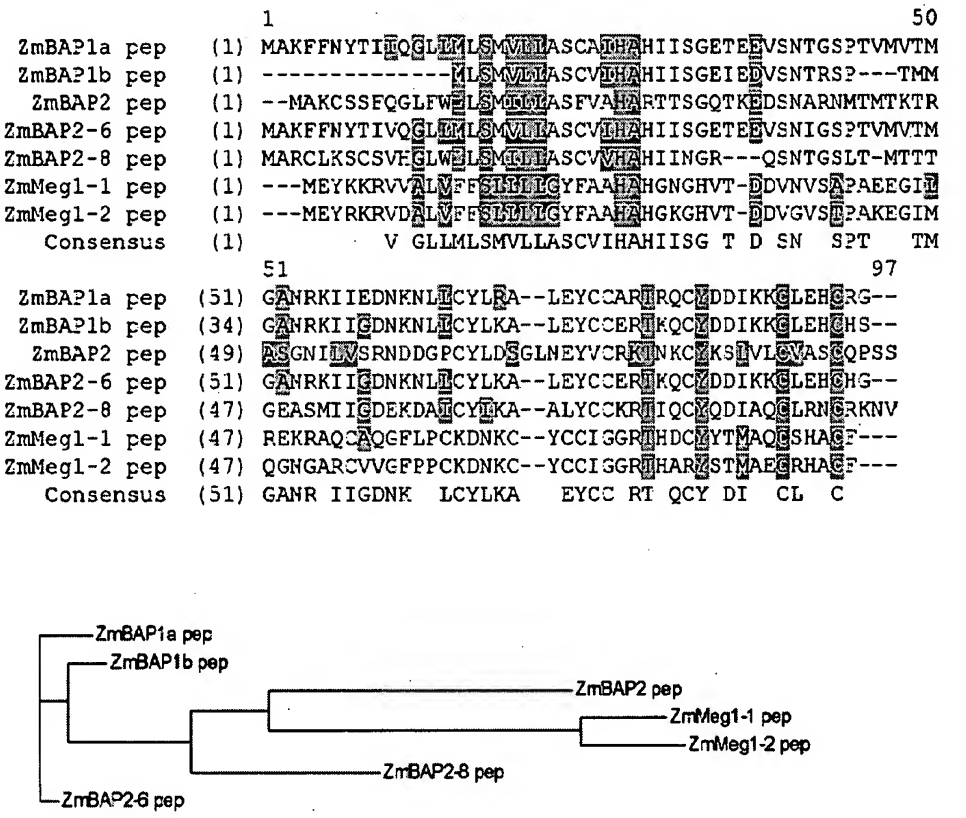

1 50
ZmBAP1a pep (1) MAKFFNYTIIQGLLMLSMVLLASCAIHAHIISGETEEVSNTGSPTVMVTM
ZmBAP1b pep (1) ----------MLSMVLLASCVIHAHIISGEIEDVSNTRSP---TMM
ZmBAP2 pep (1) --MAKCSSFQGLFWLSMLLLASFVAHARTTSGQTKEDSNARNMTMTKTR
ZmBAP2-6 pep (1) MAKFFNYTIVQGLLMLSMVLLASCVIHAHIISGETEEVSNIGSPTVMVTM
ZmBAP2-8 pep (1) MARCLKSCSVHGLWGLSMLLLASCVVHAHIINGR---QSNTGSLT-MTTT
ZmMeg1-1 pep (1) ---MEYKKRVVALVFFSLLLIGYFAAHAHGNGHVT-DDVNVSAPAEEGIL
ZmMeg1-2 pep (1) ---MEYRKRVDALVFFSLLLIGYFAAHAHGKGHVT-DDVGVSTPAKEGIM
Consensus (1) V GLLMLSMVLLASCVIHAHIISG T D SN SPT TM
51 97
ZmBAP1a pep (51) GANRKIIEDNKNLICYLRA--LEYCCARIRQCYDDIKKGLEHCRG--
ZmBAP1b pep (34) GANRKIIGDNKNLICYLKA--LEYCCERIKQCYDDIKKGLEHCHS--
ZmBAP2 pep (49) ASGNILVSRNDDGPCYLDSGLNEYVCRKINKCYKSIVLCVASCQPSS
ZmBAP2-6 pep (51) GANRKIIGDNKNLICYLKA--LEYCCERIKQCYDDIKKGLEHCHG--
ZmBAP2-8 pep (47) GEASMIIGDEKDATCYLKA--ALYCCKRIIQCYQDIAQGLRNCRKNV
ZmMeg1-1 pep (47) REKRAQCAQGFLPCKDNKC--YCCIGGRIHDCYYTMAQGSHACF---
ZmMeg1-2 pep (47) QGNGARCVVGFPPCKDNKC--YCCIGGRIHARYSTMAEGRHACF---
Consensus (51) GANR IIGDNK LCYLKA EYCC RI QCY DI CL C
ZmBAP1a pep
ZmBAP1b pep
ZmBAP2 pep
ZmMeg1-1 pep
ZmMeg1-2 pep
ZmBAP2-8 pep
ZmBAP2-6 pep

FIG.9

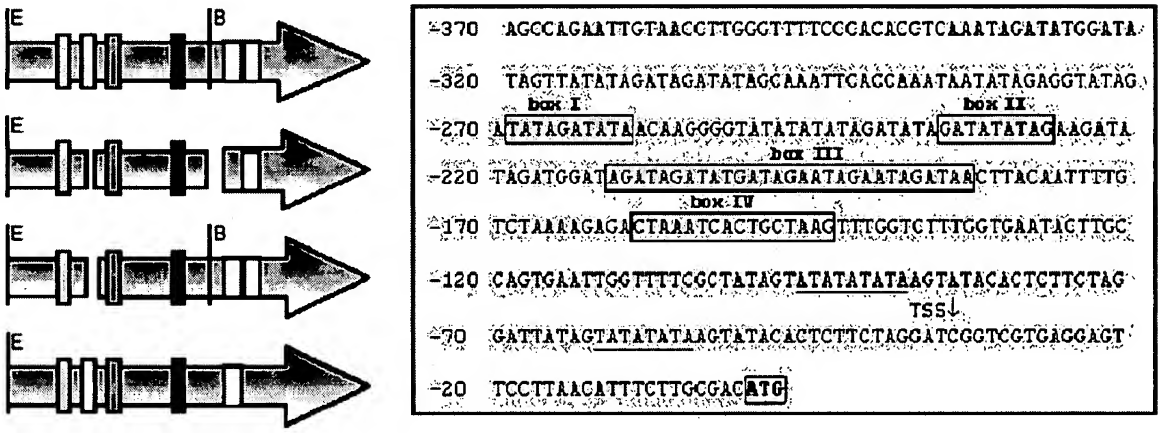

E
B
E
E
B
E
-370 AGCCAGAATTGTAACGTTGGGTTTTCCCACACGTCAAATAGATATGGATA
-320 TAGTTATATAGATAGATATAGCAAATTCACCAAATAATATAGAGGTATAG
box I
box II
-270 ATATAGATATAACAAGGGGTATATATATAGATATAGATATATAGAAGATA
box III
-220 TAGATGGATAGATAGATATGATAGAATAGAATAGATAACTTACAATTTTG
box IV
-170 TCTAAAAGAGACTAAATCACTGCTAAGTTTGGTCTTTGGTGAATAGTTGC
-120 CAGTGAATTGGTTTTCGCTATAGTATATATATAAGTATACACTCTTCTAG
TSS
-70 GATTATAGTATATATAAGTATACACTCTTCTAGGATCGGTCGTGAGGAGT
-20 TCCTTAACATTTCTTGCGACATG

FIG.10

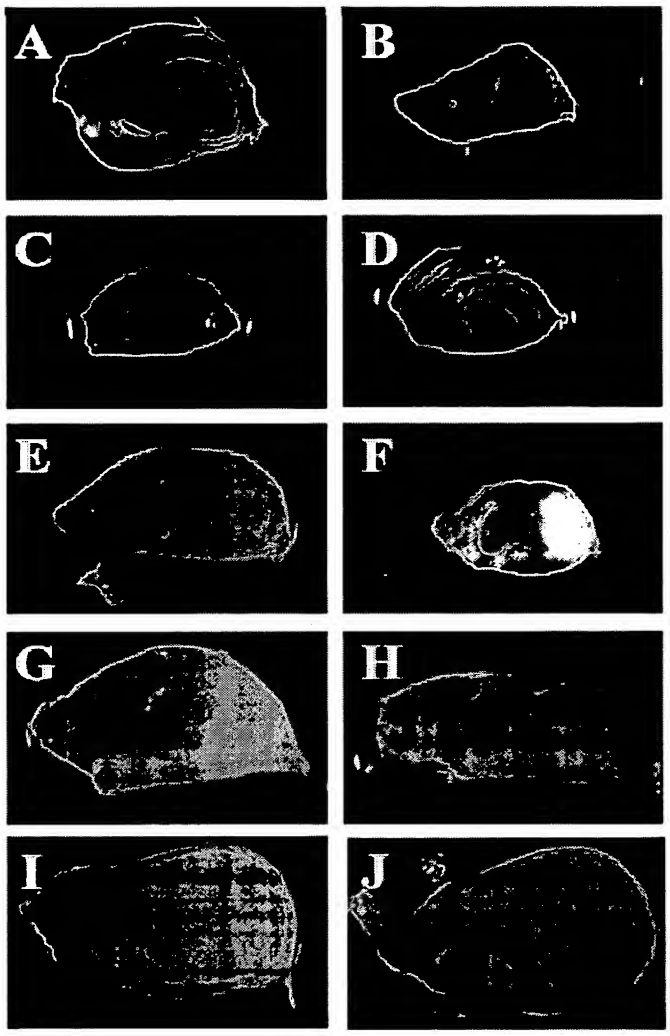


FIG.11

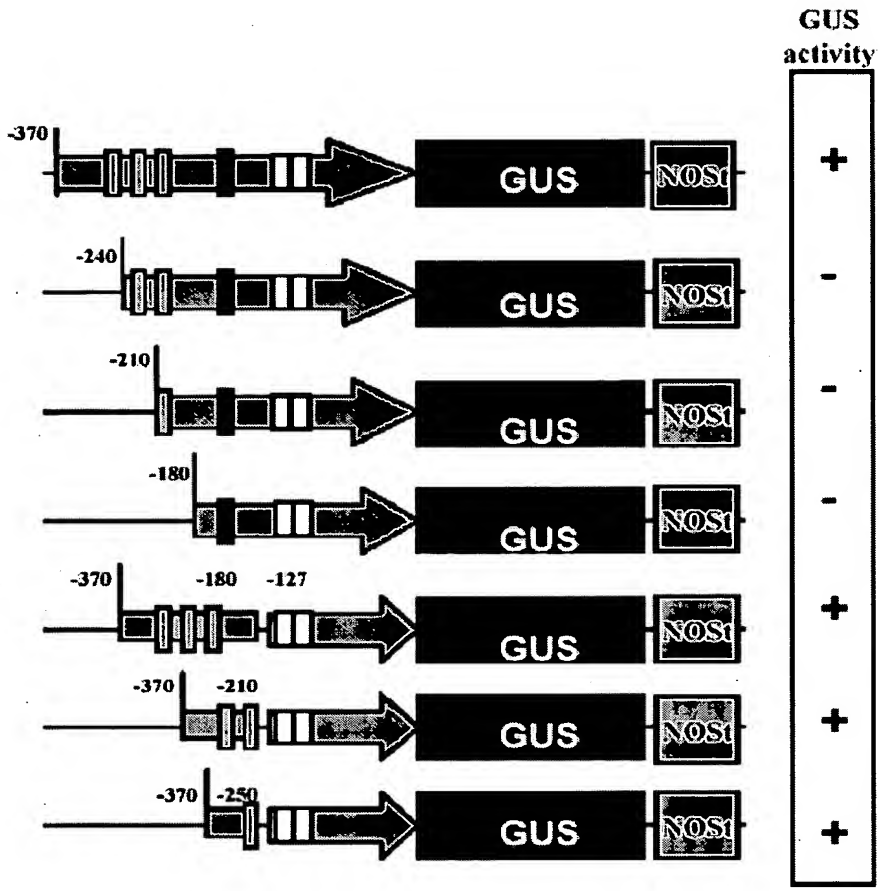

GUS activity
-370
GUS
NOSt
+
-240
GUS
NOSt
-
-210
GUS
NOSt
-
-180
GUS
NOSt
-
-370
-180
-127
GUS
NOSt
+
-370
-210
GUS
NOSt
+
-370
-250
GUS
NOSt
+

FIG.12

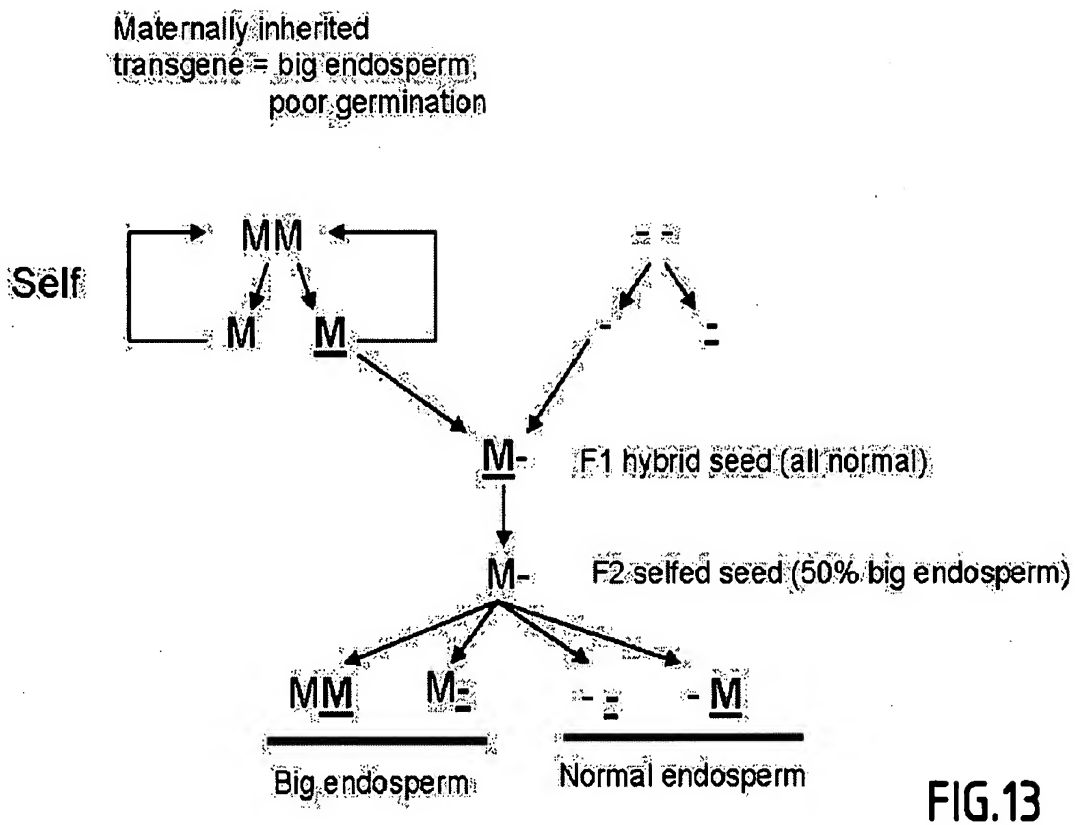

Maternally inherited
transgene = big endosperm,
poor germination
Self
MM
M
M
M-
F1 hybrid seed (all normal)
M-
F2 selfed seed (50% big endosperm)
MM
M-
- M
Big endosperm
Normal endosperm

FIG.13

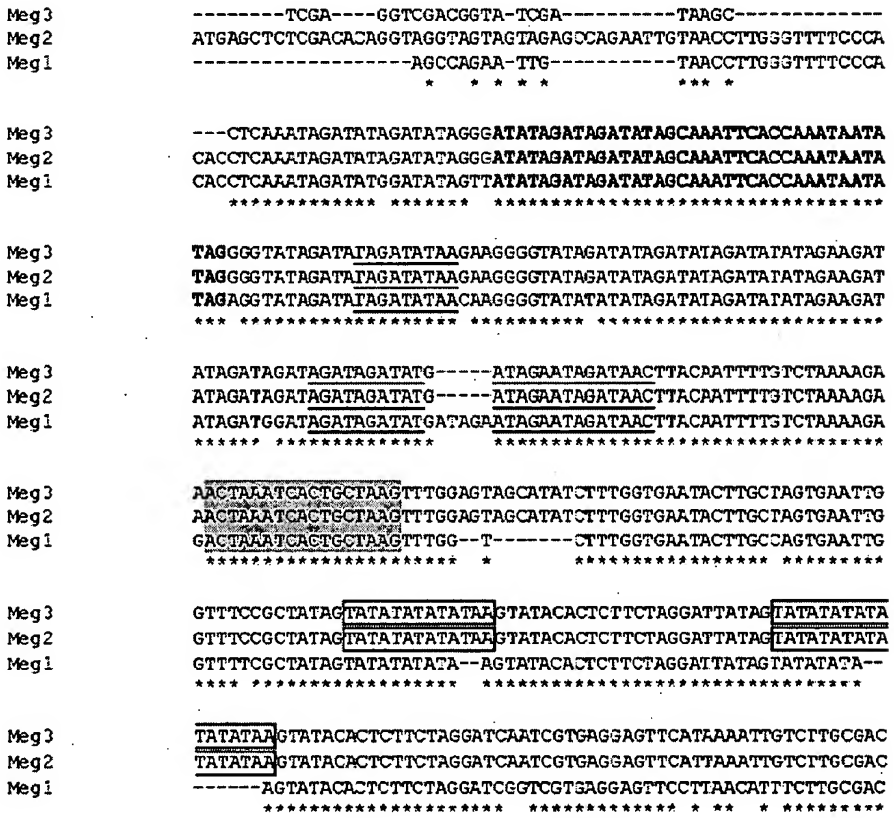

Meg3 --------TCGA----GGTCGACGGTA-TCGA----------TAAGC----------
Meg2 ATGAGCTCTCGACACAGGTAGGTAGTAGTAGAGCCAGAATTGTAACCTTGGGTTTTCCCA
Meg1 ----------AGCCAGAA-TTG----------TAACCTTGGGTTTTCCCA
Meg3 ---CTCAAATAGATATAGATATAGGGATATAGATAGATATAGCAAATTCACCAAATAATA
Meg2 CACCTCAAATAGATATAGATATAGGGATATAGATAGATATAGCAAATTCACCAAATAATA
Meg1 CACCTCAAATAGATATGGATATAGTTATATAGATAGATATAGCAAATTCACCAAATAATA
Meg3 TAGGGGTATAGATATAGATATAAGAAGGGGTATAGATATAGATATAGATATATAGAAGAT
Meg2 TAGGGGTATAGATATAGATATAAGAAGGGGTATAGATATAGATATAGATATATAGAAGAT
Meg1 TAGAGGTATAGATATAGATATAACAAGGGGTATATATATAGATATAGATATATAGAAGAT
Meg3 ATAGATAGATAGATAGATATG-----ATAGAATAGATAACTTACAATTTTGTCTAAAAGA
Meg2 ATAGATAGATAGATAGATATG-----ATAGAATAGATAACTTACAATTTTGTCTAAAAGA
Meg1 ATAGATGGATAGATAGATATGATAGAATAGAATAGATAACTTACAATTTTGTCTAAAAGA
Meg3 AACTAAATCACTGCTAAGTTTGGAGTAGCATATCTTTGGTGAATACTTGCTAGTGAATTG
Meg2 AACTAAATCACTGCTAAGTTTGGAGTAGCATATCTTTGGTGAATACTTGCTAGTGAATTG
Meg1 GACTAAATCACTGCTAAGTTTGG--T-------CTTTGGTGAATACTTGCCAGTGAATTG
Meg3 GTTTCCGCTATAGTATATATATATAAGTATACACTCTTCTAGGATTATAGTATATATATA
Meg2 GTTTCCGCTATAGTATATATATATAAGTATACACTCTTCTAGGATTATAGTATATATATA
Meg1 GTTTTCGCTATAGTATATATATA--AGTATACACTCTTCTAGGATTATAGTATATATA--
Meg3 TATATAAGTATACACTCTTCTAGGATCAATCGTGAGGAGTTCATAAAATTGTCTTGCGAC
Meg2 TATATAAGTATACACTCTTCTAGGATCAATCGTGAGGAGTTCATTAAATTGTCTTGCGAC
Meg1 ------AGTATACACTCTTCTAGGATCGGTCGTGAGGAGTTCCTTAACATTTCTTGCGAC

FIG.14